

# Annville-Cleona School District



**Course:** Advanced Algebra

**Credit Hours:** 1

**Prerequisites:** A grade of C or better in Geometry

**Instructor:** Mr. Lamb

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**Course Description:** This is a second year course in algebra and the fourth in the UCSMP curriculum. Reading and problem solving will be emphasized throughout the course. Students are expected to use current technology (TI-84 calculators) while studying real-world applications of their algebra skills. This course contains substantial amounts of geometry integrated with the algebra. Advanced Algebra studies a variety of topics, from lines to logarithms, from quadratic equations to conic sections, from systems to statistics, from matrices to trigonometry.

## Course Objectives:

Students will...

- Explore the applications and uses of functions.
- Study the properties and applications of powers.
- Learn to graph and identify different polynomial functions, including quadratics.
- Apply problem-solving skills to the real world.
- Explore the higher-level ideas such as exponentials, logarithms, and sine functions.

## Materials Needed:

**Text**—Advanced Algebra by UCSMP, Prentice Hall, Inc., 2002.

**Others**—Pencil, calculator (TI-84 Plus Silver recommended, any TI-83 or TI-84 will work), and a three-ring binder to keep as a notebook.

**Course Requirements:** Students will move through the curriculum at a quick pace. It is imperative that all homework be completed and a notebook kept of all definitions and examples. From these, a series of quizzes, tests, homework, miscellaneous assignments, and participation will be graded.

**Assessment/Grading Procedures:** Marking period grades will be determined on a weighted scale. Chapter tests will account for 40% of the overall marking period grade, while quizzes will be 25%, homework 10%, class participation 5%, and other miscellaneous assignments will be 20%. There will be 2-3 tests and 4-8 quizzes per marking period. Homework will be checked for completeness. Class participation will be recorded weekly. In order to earn all points for class participation, you should have the following items with you **EVERY DAY:** Your textbook, notebook, calculator, and **PENCIL**. You will lose points if you are unprepared or are being disruptive, not taking notes, or late to class. Miscellaneous assignments are going to be items such as notebook checks, in-class or take home graded work, and projects. Quizzes and tests will not be handed back until everyone has completed them. Quizzes, tests, and projects are all ZAP-pable assignments.

**Expectations (Attendance/Participation):** Attendance and participation are both musts! Mathematics is not a spectator sport! Make sure you keep notes of different concepts that are covered. Definitions and examples on the board will be the bulk of notes, and any handouts should be kept as well in an organized binder. Any missed work *must* be made up the next day of class, either in class, during a study hall, or after school. Exceptions may be made for extended absences.

**Additional Information:** All assignments *must* be completed with a pencil. Any assignment turned in done in pen will suffer a 10% deduction of the original possible score. I will challenge you to learn math as best you can, and I will help you as much as I can. It is up to you as to how well you do. If you are determined to do well, then you will do so.